



## PIN CONNECTIONS

| Pin | Symbol          | Level | Function                         |
|-----|-----------------|-------|----------------------------------|
| 1   | SDA             | H/L   | Data for serial mode             |
| 2   | V <sub>SS</sub> | 0V    | GND                              |
| 3   | SCLK            | H/L   | Serial clock                     |
| 4   | /REST           | L     | Reset signal,active"L"           |
| 5   | A0              | H/L   | "H" Data<br>"L" Instruction code |
| 6   | /CS             | L     | Chip select signal               |
| 7   | V <sub>DD</sub> | +3.3V | Power supply for logic           |
| 8   | LEDA            | +5.0V | Power supply for LED             |
| 9   | LEDK            | 0V    |                                  |

### NOTES:

- 1.Built-in controller(UC1698)
- 2.FSTN、COG

## MECHANICAL DATA

| Item                    | Nominal Dimensions | Unit |
|-------------------------|--------------------|------|
| Module Size (W x H x T) | 83.8X76.5X16.3     | mm   |
| Viewing Area (W x H)    | 60.0 X60.0         | mm   |
| Dot Pitch (W x H)       | 0.34X0.34          | mm   |
| Dot Size (W x H)        | 0.32X0.32          | mm   |

## ABSOLUTE MAXIMUM RATINGS

| Item                  | Symbol                           | Min. | Max.                 | Unit |
|-----------------------|----------------------------------|------|----------------------|------|
| Supply Voltage(Logic) | V <sub>DD</sub> -V <sub>SS</sub> | -0.3 | 4.0                  | V    |
| Supply Voltage(LCD)   | V <sub>0</sub>                   | -0.3 | 19.8                 | V    |
| Input Voltage         | V <sub>I</sub>                   | -0.3 | V <sub>DD</sub> +0.3 | V    |
| Operating Temp        | T <sub>OPR</sub>                 | -25  | 70                   | °C   |
| Storage Temp          | T <sub>STG</sub>                 | -30  | 80                   | °C   |

## ELECTRICAL CHARACTERISTICS (V<sub>DD</sub>=5V, Ta=25°C)

| Item                | Symbol          | Min.               | Typ. | Max.               | Unit |
|---------------------|-----------------|--------------------|------|--------------------|------|
| Input High Voltage  | V <sub>IH</sub> | 0.5V <sub>DD</sub> | 3.3  | V <sub>DD</sub>    | V    |
| Input Low Voltage   | V <sub>IL</sub> | 0                  | -    | 0.2V <sub>DD</sub> | V    |
| Output High Voltage | V <sub>OH</sub> | 2.4                | -    | V <sub>DD</sub>    | V    |
| Output Low Voltage  | V <sub>OL</sub> | 0                  | -    | 0.4                | V    |
| Supply Current      | I <sub>DD</sub> | -                  | TBD  | --                 | mA   |
| LCD Driving Voltage | V <sub>0</sub>  | -                  | 16.5 | -                  | V    |

## LED BACKLIGHT SPECIFICATION (Ta=25°C)

| Item  | Forward Voltage | Forward Current |
|-------|-----------------|-----------------|
| WHITE | 3.1V            | 60mA            |